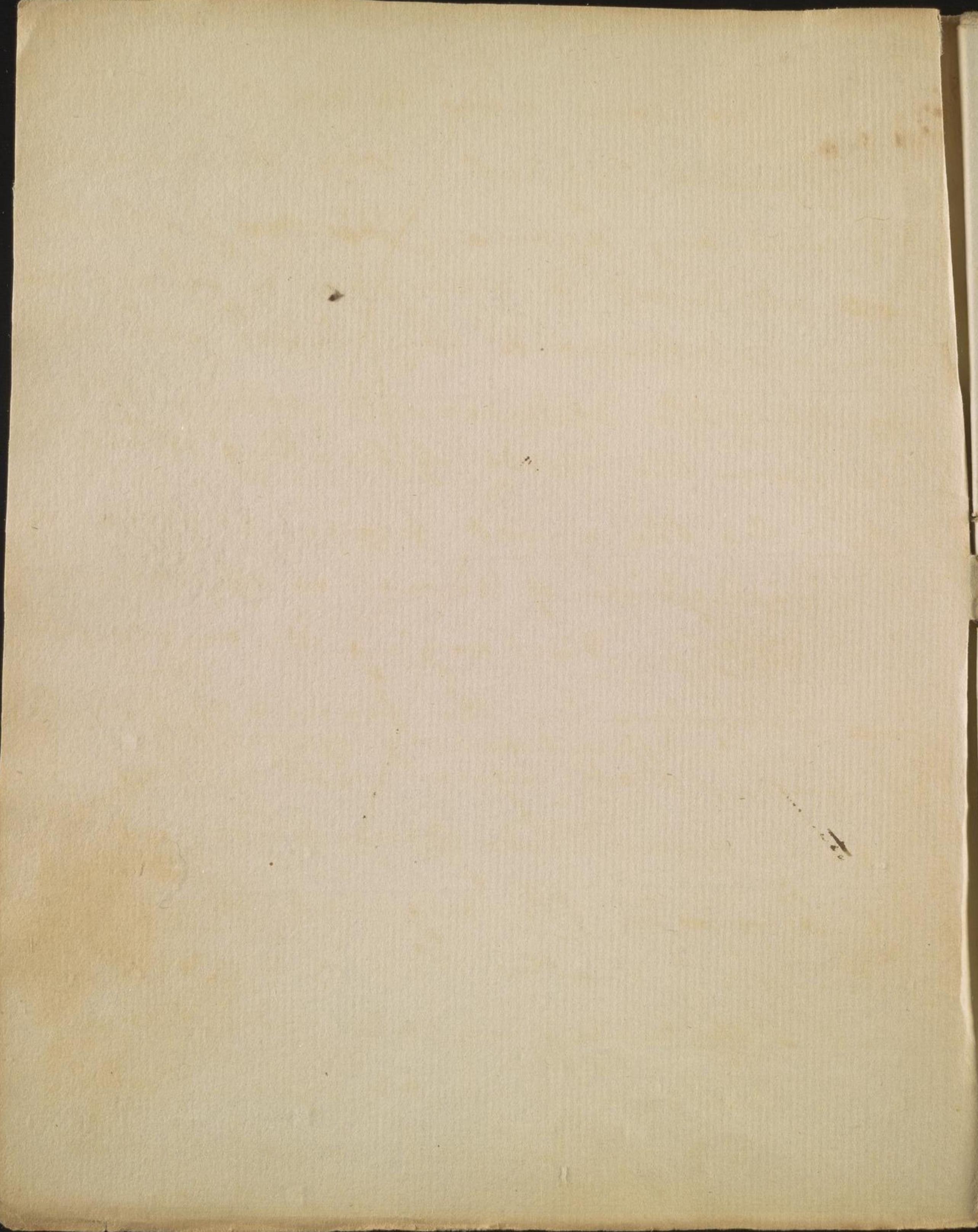


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n<sup>o</sup> 2

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of the Diseases & Disorders of the  
Urinary organs continued.



11

we come now to an important  
& difficult subject viz: the diseases of  
the urinary organs. ~~The~~ <sup>now</sup> I shall  
~~not~~ attempt to give you a theory <sup>of</sup>  
them, and afterwards lay before you the  
result of the experienced reading of my  
life upon the mode of treating ~~them~~.

As the most frequent cause of  
the suppression of Urine, or of pain &c  
difficulty in discharging it, arises from  
~~the~~ <sup>sand,</sup> calculi in the forms of Gravel,  
or stone <sup>in the different urinary organs,</sup> I shall begin with a few re-  
marks upon this generation.

1 ~~This~~ In the original composition  
of animal matter there is a portion of  
that substance we call Calculus. It  
is the predominance or separation of  
this substance which constitutes w.

was ascribed to their scanty diet. This fact suggests an important remedy for Obstructions of all kinds in every part of the body, and that is Abstinence from - living upon famine. The I ~~have said~~ <sup>for</sup> pump ~~and~~ <sup>the</sup> the Lymphatics in our physiology to live which fed upon the filth of our sheets. ~~As~~ I have said that the Lymphatics become hungry in famine.

- ~~By~~ <sup>so</sup> ~~more~~ <sup>more</sup> Abstinence it is they we see this in Droppings, & in fures in W: they absorb water & fat. By the same means - may they not be let loose upon <sup>all</sup> other matters in the body that are redundant in quantity or of an offensive quality? I have often seen tumors subside & disappear ~~of~~ during a chronic fever. Even Bubos have thus vanished <sup>from over</sup> —

called the <sup>12</sup> ~~calci~~ <sup>F</sup> calci <sup>lous</sup> Diathesis.

2 This Diathesis prevails throughout nearly every part of animated nature not only in the human Species, but <sup>among</sup> cattle, horses, ~~lows~~, sheep, hogs - dogs - cats & many other animals. They suffer less from ~~stone~~ than men when they exist in their bladders from the horizontal posture of <sup>the</sup> bodies. Jones saw a stone <sup>&</sup> ~~weighed~~ was as large as a  $\frac{1}{2}$  dr. shot, cut out of the bladder of a mare 18 years old, that was diseased from it but three days before she died, & I have heard of a stone of  $\frac{1}{2}$  22 & penny w<sup>t</sup> taken from a horse that was diseased but one night before his death.

3 Some nations are more affected with Calci <sup>lous</sup> than others, - it is most common in Britain - Holland & France. It is a rare complaint in Switzerland - Saxony Japan & India. Haller.

+ morely's fact of a British Officer.

& more than running water. Bruce  
says it is unknown near the Nile,  
but very common at a distance from  
it, where the inhabitants drink  
well water.

= from our right. In advising for  
abstinence for the removal of obstructions,  
it will be necessary only to abstain from  
-nishment from the body. The ~~the~~ tone  
of the stomach & bowels & nervous system  
may still be kept up by ~~and~~ a little  
~~rubbed~~ ~~abstinent~~, & by tonic medicines ~~the~~  
~~to blunt their appetites by~~  
lymphatics are too ~~excessive~~ & ~~gluttonous~~  
~~feeding~~ upon either them ~~so~~



7 V It is a more common disease in  
early than in middle life, or in old  
age. Out of about 1600 ~~patients~~  
that were admitted into the hospital  
at Louisville, 558 of them were between  
6 & 10 years of age. The greatest number  
were but 6 years old viz: 147.

+ 9 It is an hereditary disease. I visited Dr  
Physick in cutting a young man for the stone  
Wm Brown - whose grandfather - granduncle &  
uncle had all been afflicted with gravel or  
stone. His father lately.

of women are less subject to calculus  
in the bladder, than men from the  
more easy passage of <sup>14</sup> the urine  
which produce it out of the bladder  
this their shorter urethra. turn back

~~obstinate~~ and old people <sup>who</sup> ~~and~~

8 Some Drunks are said to produce it more  
than others. Malt liquors have been  
blamed for this purpose - But Dr. Haller  
denies it, and says out of nearly 300  
bodies of Beer drinkers which he disputed  
he found but ~~one~~ <sup>one</sup> which ~~had~~ certainly  
~~produced~~ malt liquors ~~but~~ <sup>certainly</sup> produced it,  
therein. Drunks which abounded with an  
acid from the kidney being more easily evolved  
and ~~certainly~~ predisposed to it +  
It appears first in the kidneys & bladder -  
than in malt liquors of a strong body. +  
the ~~second~~ <sup>second</sup> best posture especially on  
the back tends to produce this dis  
Having thus mentioned its predisposing

✓ I do not say a Calandus cannot be  
formed without a nucleus. I believe it  
may, but it is most frequently produced  
from one, and when formed -

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causes, I shall now enumerate ~~and~~ <sup>its</sup> the  
~~the~~ <sup>of this Disease,</sup> ~~and~~ <sup>its</sup> ~~remote~~ causes, ~~that~~ <sup>the</sup> ~~that~~ ~~the~~ ~~the~~  
1 particles of the blood - such as <sup>its</sup> lymph,  
or red particles <sup>2</sup> pus <sup>3</sup> mucus & tumors  
or extraneous matter in the bladder -  
and an abrasion of the mucous of the  
bladder. The three former are the most  
frequently. They are excited by violent  
exercise especially hard riding, & contusions  
upon the region of the kidneys. ~~but~~ <sup>as common</sup> as  
fever which affects the kidneys sometimes  
promotes the effusion of the above <sup>substances</sup> ~~matter~~  
- ~~standing~~ <sup>long</sup> by wearing  
the kidneys disposed to these effusions,  
and hence the nobility who serve the  
former  
Kings of Spain by standing many hours  
in his presence, are often affected by  
calculus. <sup>V</sup>

The nucleus or basis of calculus

leather

+ Sir Isaac's Chair was cured by the  
resinom of his urine which distilled upon  
it without his being able to prevent it. It  
was a very common disease in the 17<sup>th</sup> century (a)

+ Dr. Stilling a Shirrups prostate gland to  
retaining Urine in the flats of London - when  
he was 80, - had been coming on 6 years.

V Vanwyeter relates the case of a  
man who by lying on his back for  
a few weeks in consequence of break-  
ing his thigh, had a ~~stone~~ formed  
in his kidneys.

(a) ~~for~~ in England - <sup>a period of the greatest</sup> ~~particularly among~~  
~~the intellectual~~ and moral glory of that  
country. In reading the lives of the 22,000  
ejected ministers in the Reign of Charles II. it  
appears that <sup>yearly</sup> 1/3 of them were afflicted -

16

being thus formed, a stony matter is deposited upon it either in the kidneys or Bladder. This deposition is hastened, & made more certain, by the following circumstances.

1 The long retention of the Urine after  
the Bladder is full. Dr Franklin owned  
his Stone to this cause. Judges, Clergymen  
Schoolmasters & Students men ~~and~~<sup>who</sup>  
forget to discharge ~~urine~~<sup>urine</sup>, or who do  
not feel its from the predominance of  
mental Stimulus, are often afflicted with  
Gravel & Stone. Sir Isaac Newton & Dr Law  
died with ~~it~~<sup>old men</sup> in part from <sup>indisposition</sup> ~~indolence~~  
from ~~perhaps~~<sup>to make this</sup> perhaps owe y. Stone to this cause.  
2 Lying long on the Back. hence Gouty  
people are so subject to the Stone. The  
tendency of gouty action to the kidneys  
favours the effusion of its nuclei, as  
well as disposes to <sup>Valvularis</sup> ~~Valvularis~~ Concretion.

= with gravel or stone induced by their sedentary  
and studious lives. —

old people, children<sup>17</sup> ~~and~~ <sup>and</sup> probably over  
the ~~adults~~ <sup>to</sup> ~~adults~~ to the same cause, the ~~former~~  
lie chiefly on their backs. It appears  
in them <sup>even</sup> under a year old - one case  
is related of its being congenital.

3 The partial, or imperfect discharge  
of the Urine in a lying posture - whereby  
a quantity of the Urine is left behind,  
and thus by becoming more <sup>disorganized</sup> ~~solid~~  
deposits its stony matter upon a mu-  
-cus if any exist in the bladder. Old  
Mr. Fisher's case of Virginia: The imperfect  
discharge of the Urine in an adult <sup>in an infant</sup> ~~posture~~  
the weakness of the Accelerates Urine,  
probably ~~also~~ produces the same effect. —  
Gravel ~~the~~ <sup>or</sup> Stone thus formed produces diff.  
Symptoms as it appears in the kidneys,  
Ureters - or Bladder.

In the kidneys - pain on one or both

1 a, To this hysperton there are sometimes exceptions.  
The itching is sometimes induced by disease of the neck of  
the bladder and even of the Rectum as well as by a stone,  
as by good a stone, in 1808

v I prescribed for a woman lady last  
summer who<sup>t</sup> with this disease who  
told me her mother had had been afflicted  
it, & that such was the ambiency of a  
possible in a fit of it, that ~~the~~ <sup>the most exquisite</sup> ~~pains~~ <sup>pains</sup> of it, that the previous  
pain was varied only by a person  
walking gently across the floor of her  
bed room.

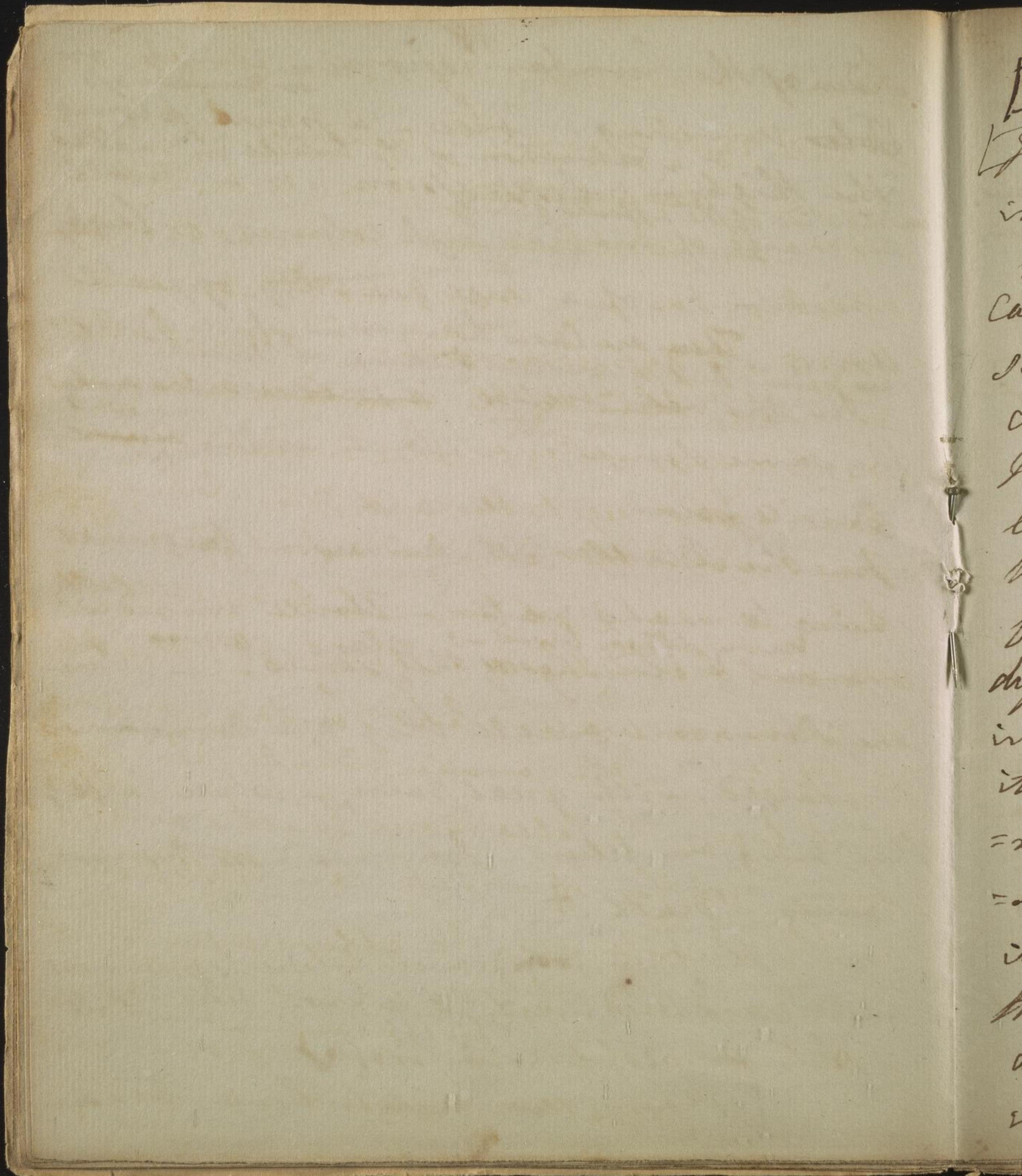
+ Throbs. A disease that is a shrinking of  
the prostate gland sometimes counterfeits  
the presence of a stone in the bladder.  
It is known 1 by pain in discharging  
faeces. 2 the absence of bloody urine. 3 no  
evidence of  
4 pain in riding. 4 and general bad  
health. To each of these signs there are  
occasional exceptions. as riding from or  
gones.

18  
Sides of the lumbar region - sickness, or  
or Vomiting - Colic - a pain along  
the thigh - & a retraction of the testicle in males  
on the side of the affected kidney -  
discharge of turbid - high colored, or bloody  
urine - or of a large quantity of pale  
urine. There are cases however in which it produces  
no pain; but a constant sickness or Vomiting.  
In the Uterus - it produces nearly  
the same symptoms, but with <sup>more</sup> ~~less~~  
- quite pain.

In the Bladder, it produces a frequent  
desire to make water - Urine mixed w:  
even other blood - <sup>th</sup> Glans (a) " " " " " "  
burns, & itching of the penis. — When  
the Stones are small they are sometimes  
discharged, with great pain, - when large,  
they bring on Ulcers - Schistos - & Burner  
- Cancer - Death. +

The pain from gravel & stone is preeminent  
over all other pain in intensity. The whole  
System ~~for~~ agonizes in it. ✓

[Many experiments have been



I made to ascertain the nature of this stone.  
 I shall read to you the result of Dr Black's  
 inquiries ~~tak~~<sup>on</sup> upon this subject. taken  
 from his ~~work~~<sup>notebooks</sup> "The matter of ~~the~~<sup>the</sup>  
 Calcaris, has been considered by some as  
 similar to Gypseous bodies. - Others have  
 compared them to the ~~smooth~~<sup>water</sup> calcareous  
 Inrustations which some mineral ~~body~~<sup>water</sup>  
 leave upon Vegetables, and other bodies. Others  
 have supposed the Calcaris a sort of Tartar  
 from wine. But it is a substance totally  
different from all these. It is not soluble  
 in acids, nor water, like Tartar, and as  
 it dissolves in the Aromatic Alkali, it is diffe-  
 rent from the Calcareous Earths or Gyp-  
 sum, neither of which can be dissolved  
 in this substance. It effervesces with  
 the nitrous acid, but it is not attended w:  
 a loss of weight. <sup>This effervescence</sup> It proceeds from an  
 inflammable matter present, and is

[# They have been divided 1 into such as are composed of Unfixed & 2 parts of ammoniac. These are soluble in a solution of fixed alkaline salts.  
2 Phosphate of lime - 2<sup>o</sup> of magnesia & 2<sup>o</sup> of ammonia. These may be fused by a blow pipe & dissolved in ammonia.

3 Oxydate of lime. These are insoluble in Alkalies, but ligurify slowly in ammonia acid. I see below  
4 Phosphate of lime. These are soluble in ammonia acid.

[✓ Dr Black's ash of human Calcarus, par-  
ticularly in not containing any of the  
Carbonic acid. # see above.

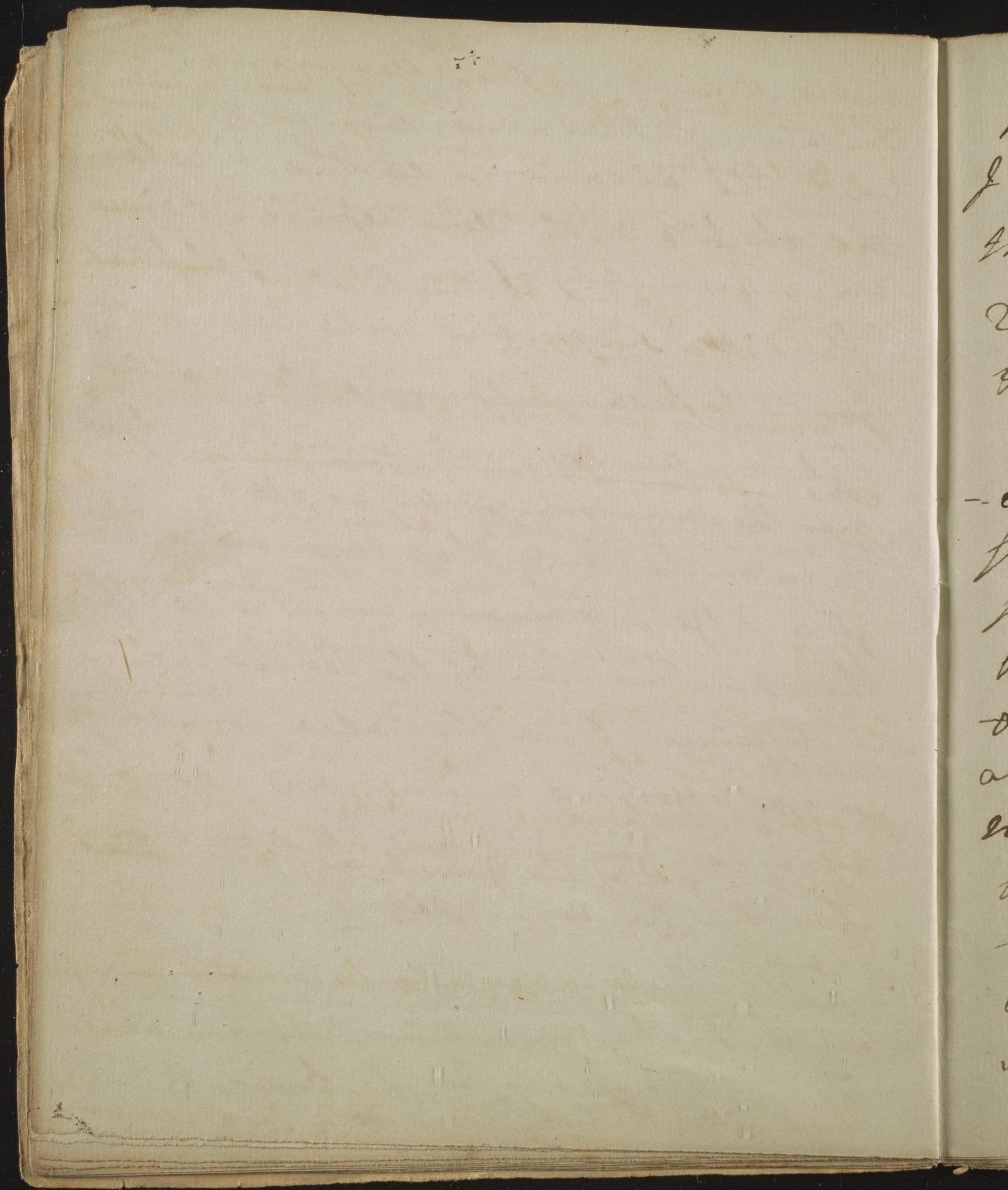
Of the specific gravity of urinary Calculi varies  
according to Survey from 1213, to 1976. Some  
late experiments ~~too show them to consist~~<sup>of</sup> appear to consist  
the different kinds ~~afford~~<sup>afford</sup>. 1 Urine acid. 2 Thaluate  
of ammonia. 3 The phosphate of lime - of magnesia-  
and ammonia - 4 The oxydate of lime - 5 Carbonate  
of lime. 6 Silex, oxy ammonia animalis. Their OI

[I. 5<sup>th</sup> lime 45 parts. Carbonic acid 37. Animal  
matter & water 18 parts, making in all 100. These  
are soluble in ammonia acid.] -

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more similar to the effervescence of  
metals with that Acid, than its effervescence  
with the Calcareous earths, & when  
set on fire with close vessels, it gives  
out a quantity of an aerial elastic  
fluid; ~~it~~ I suspect it will be mostly  
found to be an inflammable matter;  
that is - an animal Concretion which  
has the same principles as all animal  
substances, only that these are united  
in a different manner. The earth is  
the same as that of the bones, which  
is different from the Calcareous earth,  
in not affording a lime, and having less  
attraction for Acid, and little or none  
for the Carbonic Acid.]

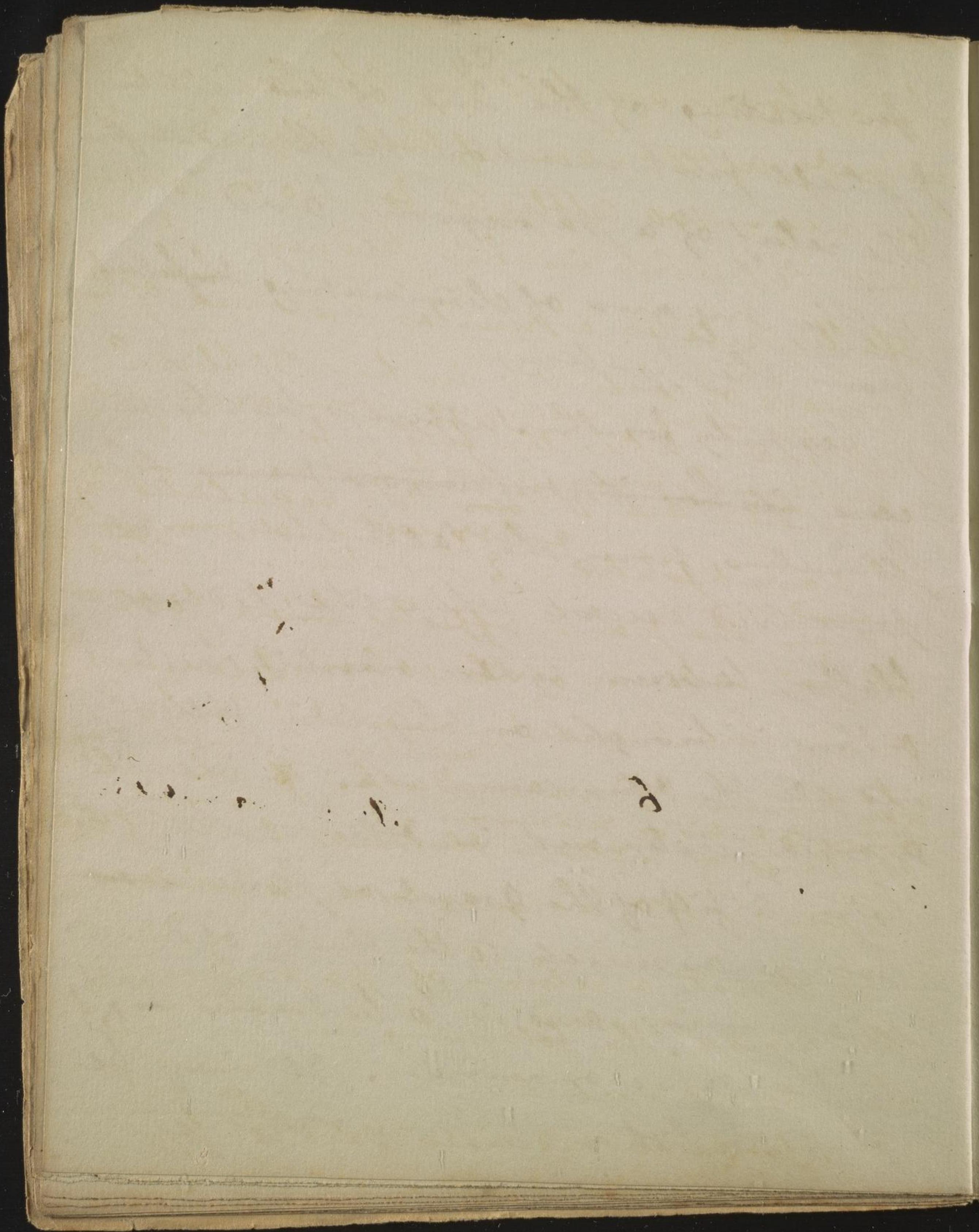
[Mr Whale's experiments have discovered  
our Acid to be present in human Calculus,  
which he supposes to be its basis. It has  
been called the lithic Acid ~~and~~ Dr Jacobs compound



21

In treating of the cure of the Calculus,  
I shall first mention the Remedies for  
the relief of a paroxysm, and  
2<sup>nd</sup> by the means of eliminating the Calculi  
from the System.

Happily for the sufferers by this disease its ~~has~~ <sup>is</sup> ~~its~~ <sup>precursors</sup> ~~passing~~ the  
Stimulus from the Calculus is not <sup>so</sup>  
perceived except when the kidneys or  
~~bladder~~ <sup>uterus</sup> labour under morbid excitement.  
& this is brought on by cold, fatigue,  
and all the other causes which induce  
morbid excitement in other parts of the  
body. a fit of the gravel or stone ~~is not~~  
belongs as much to the unity of disease  
as a plunsey, and is to be treated <sup>mainly</sup> ~~soon~~  
in the same manner. It may be  
obviated when its ~~premonitory~~



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Symptoms are felt by Dr. By this <sup>to</sup> ~~is~~  
is remedy a Mr. Zane of this city used to  
be never less afflicted for 40 or 50 years  
with Calculus in his kidneys. Dr.

Haller relates a similar instance of the  
efficacy of corky Vd. in his Biblioth.  
I have used it with great advantage in a galld  
Medicinal. After the fist is formed the  
in this city in the following state of his disease.  
Remedies are 1 Cork Vd. regulated by

2 Wormit - Col. Martin <sup>is</sup>  
the pain & pulse. 3 Injections <sup>These</sup>  
discharged ~~and~~ <sup>as</sup> act on the part affected like a bath  
tho' the medium of the Colon. Eminent  
purgs - particularly Castor Oil. 4 Dig. <sup>3</sup>  
demulcent drinks. 5 an  
Laudanum 6 Warm Bath. <sup>8</sup> when the  
Onion to pubis or perineum. This <sup>is</sup> most useful in  
discharge of water is obstructed from the  
bladder, it is to be drawn off by a catheter.

To alleviate a return of paroxysms of  
this disease, the following remedies have  
been found useful.

1 Certain medicines said to be

+ Lord Walpole took 3*i* of Sop's & this  
of lime water for 8 years and was  
relieved by them of the stone. His  
health was improved by the habitual  
use of these remedies. It is remarkable  
a calculus is more ~~diff~~ soluble out of  
the body in the urine of a person who  
has been using lime water than in com-  
mon urine.

~~V~~ ~~dead~~ a paroxysm of the gravel. By thus  
obviating debility and disease, the kidneys &  
bladder, after a while lose their power to  
the stimulus of gravel, and stone, and  
hence many persons carry calculi  
through life in their kidneys & bladder  
without pain, or any other  
sign of disease. = (as)

Antikilitic, such as the Caustic Alkali, the  
 water impregnated with Carbonic acid gas, the  
 Nitric acid, Lime water & soap - also certain  
 vegetable waters particularly the Uva Ursi,  
 and the wild and canot seed tea. These substances  
 have been supposed to dissolve the stone in  
 the Urinary organs, but on any dissectional  
 soundings prove this not to be the case. The  
 experiments of Dr Leomphus prove that the Calculus  
 is but little changed out of the body by any of the  
 above substances in a simple state, and not  
 at all when ~~200~~ diluted with urine. The  
 Alkaline salt, lime water & soap act by neu-  
 tralizing the acid of the stomach, & thus  
 perhaps prevent the increase of Calculus. The  
 acids and ~~root~~ Uva Ursi act as tonics, and  
 thus obviate the debility which invites to ex-  
 -cited excitement, or that pain, sickness and  
 fever which constitute V

